REX FAQs

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1. How does REX work

a. REX uses x-ray fluorescence to identify dissolved metals from high ppm to low ppb levels in a flow stream.
b. REX works at the site of concern – In-Situ
c. REX operates unattended and requires no consummables
d. REX sends data via text file to any location world wide
e. REX is a process control system with 7 output channels

2. What is the warranty

a. The warranty is for a period of one year against all defects in manufacturing and operation.
b. Additional term lengths are available via extended warranty and/or service contract.

3. How is maintenance handled

a. Depending on customer requirements AMDS will either provide service through an in-country authorized service representative.
b. Train large scale end user personnel in the direct service and maintenance of REX.
c. Send AMDS service employees to any location world wide.
d. For large scale remote 24 hour/7 day a week operators, we can provide a hot swap logistical package.

4. Where is REX most useful

a. Steam Power generation
   i. Measurement of chloride content to low ppb levels is vital for proper operation of high pressure boilers and turbines.
b. Refinery Operations
   i. Measurement of iron, nickel, molybedenum, and copper leaching from process piping which indicate pipeline wellness.
   ii. Dosing systems need to monitor for metals to determine treatment processes.
c. Waste water treatment
   i. Inflow and outflow water must be measured for heavy metals contamination to parts per billion levels to meet government regulations for purity. Metals of interest are primarily aluminum, nickel, cadmium, chromium, arsenic, iron, copper, mercury and lead.
d. Well head water
   i. Ground water and well water must be monitored for heavy metals contamination at the source. Metals of interest are primarily chromium, arsenic, copper, mercury, and lead.
   ii. Water preparation for industrial use and manufcturing. Metals of interest are usually unique to the industry. REX can monitor from Aluminum to Uranium.
e. Steel and aluminum manufacturing
   i. Dosing systems must be monitored for process control. Metals of primary interest are magnesium, manganese, iron, copper, silicon, lead.
f. Mining operations
   i. Outflow water must be monitored for metals contamination to satisfy governmental requirements. Metals of primary interest are gold, silver, uranium, nickel, cadmium, platinum, iron, arsenic, mercury, lead.
   ii. Metals recovery operations
   iii. REX identifies quantity and type of metals in waste streams for future recovery operations.

5. What is the mean time between failure?

a. REX is projected emprically to 14,000 plus hours, after passing initial burn-in testing.
b. MTBF is determined by electronics failure of components. AMDS has run REX systems for over 14,000 hours at full power with no component failure.